September 9, 2002

TO: Hien Phan, Art Unit 3738
CP2, Room 2-D-19

FROM: Jeanne Horrigan, EIC-3700 JH

SUBJECT: Search Results for Serial #09/446629

Attached are the search results for the "Shaped Products or Structures for Medical or Related Purposes," including results of prior art and inventor searches in foreign patent databases, and prior art searches in medical and general sci/tech non-patent databases.

In the results, a highlighted line marks the end of a search, including the search strategy, in a particular set of databases and the beginning of a new search in a different set of databases.

I did not find much under the name "acropora grandis" but I found several items under "acropora." I tagged the items that seemed to me to be most relevant, but **I suggest that you review all of the results**.

Also attached is a "*Search Results Feedback Form*." Your feedback will help enhance our search services.

I hope these results are useful. Please let me know if you would like me to expand or modify the search or if you have any questions.

I also searched the Web using Google & Scirus search engines.

Access DB# 74174

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Hieu Phan Examiner #: 76602 Date: 08/26/...

Art Unit: 3738 Phone Number 308-8969 Serial Number: 09/446,629

Mail Box and Bldg/Room Location: CP2-2D19 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Shaped products or structures for Medical or ...

Inventors (please provide full names): Razi Vago

Earliest Priority Filing Date: 07/07/1997

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

A shaped product or structure for medical or related purposes wherein said product or structure is formed of a coral of the species: Acropora grandis.

****

STAFF USE ONLY	Type of Search	Vendors and cost where applicable
Searcher: JEANNE HERRITY	NA Sequence (#)	STN
Searcher Phone #: 305-5934	AA Sequence (#)	Dialog
Searcher Location: CP2-2D08	Structure (#)	Questel/Orbit
Date Searcher Picked Up: 9/9	Bibliographic ✓	Dr.Link
Date Completed: 9/9	Litigation	Lexis/Nexis
Searcher Prep & Review Time: 95	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time: 30	Other	Other (specify)

PTO-1590 (1-2000)

1/26,TI/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
014213949
WPI Acc No: 2002-034647/200204
Storage system for storing biological material, includes a computer controlled robotic arm system for automatic insertion and retrieval of samples from storage units

1/26,TI/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
013912255
WPI Acc No: 2001-396468/200142
Quality control method for use in conveyance of biological specimen, involves tracking changes in temperature of vial temporary storage holder upon removing holder from cryogenic transport container

1/26,TI/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
012125457
WPI Acc No: 1998-542369/199846
Cryogenic storage installation - has carrier disposed inside chamber supporting specimens in predetermined array with access port having opening and plug removably located in

1/26,TI/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
011491574
WPI Acc No: 1997-469479/199743
Ultrasonic cleaning of animate and inanimate objects including humans - in a bathtub filled with water, using ultrasonic vibrations with a power density less than 5 watts per square centimetre

1/26,TI/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
010339817
WPI Acc No: 1995-241899/199532
Side entry bath tub - having stationary and moving sections where movable section can pivot away from stationary permitting entry to tub and back again to form tub enclosure

1/26,TI/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
010223113
WPI Acc No: 1995-124368/199517
Ultrasonic equipment mfg method for animal treatment - mounting ultrasonic transducer to container holding fluid for applying ultrasonic waves with two different power densities for sterilising fluid before animal enters tub

1/26,TI/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX

(c) 2002 Thomson Derwent. All rts. reserv.
010223112
WPI Acc No: 1995-124367/199517
Ultrasonic equipment for treatment of humans and animals - applies waves of two different selected power density and frequency ranges to water in tub in vicinity of patient

1/26,TI/9 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
009942334
WPI Acc No: 1994-210047/199426
Sterilisation and cleaning using ultrasonic waves - transmitted through liquid at frequency and with a power to remove unwanted material and lyse microbes

1/26,TI/10 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
009854387
WPI Acc No: 1994-134243/199416
Ultrasonic treatment system for cleaning inanimate object and for animal and human therapy - has body immersed in working fluid where ultrasonic waves are applied in 15 kHz to 500 kHz range, and reducing thermal layering by adding surfactant

1/26,TI/11 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
008089182
WPI Acc No: 1989-354294/198948
Ultrasonic treatment for animal hygiene or therapy - by transmitting ultrasonic vibrations through working fluid to sterilise fluid and, at reduced power, to treat animal

1/26,TI/12 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
008022183
WPI Acc No: 1989-287295/198940
Ultrasonic treatment method - applying ultrasonic waves with two power densities in vicinity of portion

1/26,TI/13 (Item 13 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
007985595
WPI Acc No: 1989-250707/198935
Ambulatory patient bathing system - has drive device with stationary base with vertical pivot shaft for pivoting tub horizontally

1/26,TI/14 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
002163701
WPI Acc No: 1979-J3647B/197939
Portable bath tub esp. for invalids - has frame consisting of upright

corner posts having wheels, and body supporting platform tiltably cantilevered over tub

1/26,TI/15 (Item 15 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
002157364
WPI Acc No: 1979-H7307B/197936
Therapeutic and rehabilitating mobile chair - has back-support, activity table and limb positioning and restraining members holdable in set positions by lock mechanism

1/7/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
012314421 **Image available**
WPI Acc No: 1999-120527/199910
Prosthesis, implant, other medical product or structure - is made of coral
Patent Assignee: AUSTRALIAN INST MARINE SCI (AUMA-N); AUSTRALIAN INST MARINE SCIENCE (AUMA-N)
Inventor: VAGO R
Number of Countries: 083 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 9902200	A1	19990121	WO 98AU519	A	19980706	199910 B
AU 9881990	A	19990208	AU 9881990	A	19980706	199924
EP 994735	A1	20000426	EP 98931822	A	19980706	200025
			WO 98AU519	A	19980706	
NZ 502022	A	20001222	NZ 502022	A	19980706	200104
			WO 98AU519	A	19980706	
AU 731916	B	20010405	AU 9881990	A	19980706	200125
JP 2001509422	W	20010724	WO 98AU519	A	19980706	200147
			JP 2000501790	A	19980706	

Priority Applications (No Type Date): AU 977706 A 19970707; AU 977705 A 19970707
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9902200	A1	E	31	A61L-027/00	
Designated States (National): AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW					
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
AU 9881990	A				Based on patent WO 9902200
EP 994735	A1	E		A61L-027/00	Based on patent WO 9902200
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
NZ 502022	A			A61L-027/00	Based on patent WO 9902200
AU 731916	B			A61L-027/00	Previous Publ. patent AU 9881990 Based on patent WO 9902200
JP 2001509422	W		32	A61L-027/00	Based on patent WO 9902200

Abstract (Basic): WO 9902200 A

A shaped product or structure made from coral and used for medical applications. The coral may be of the species Porites, Acropora and an antibiotic or bone ingrowth promoter is adsorbed or bound to it. The

product may be a cylinder, sleeve, pin, screw, bolt, nut, spacer or plate.
USE - The product is useful as a prosthesis, implant, etc.
ADVANTAGE - The coral interacts with living bone tissue and modulates bone formation and repair.
Dwg.1A/2
Derwent Class: B07; C07; D21; D22; P34
International Patent Class (Main): A61L-027/00
International Patent Class (Additional): A61L-031/00

File 350:Derwent WPIX 1963-2002/UD,UM &UP=200257
File 344:Chinese Patents Abs Aug 1985-2002/Aug
File 347:JAPIO Oct 1976-2002/May(Updated 020903)
File 371:French Patents 1961-2002/BOPI 200209

Set	Items	Description
S1	**15**	**AU='VAGO R':AU='VAGO R E'**
S2	1127	CORAL OR ACROPORA()GRANDIS
S3	**1**	**S1 AND S2 [a duplicate]**

File 348:EUROPEAN PATENTS 1978-2002/Sep W01
File 349:PCT FULLTEXT 1983-2002/UB=20020905,UT=20020829

Set	Items	Description
S1	**2**	**AU='VAGO RAZI':AU='VAGO RAZO' [duplicates]**

6/6,K/1 (Item 1 from file: 5)
DIALOG(R)File 5:(c) 2002 BIOSIS. All rts. reserv.
09504887 BIOSIS NO.: 199497513257
A non-destructive method for monitoring coral growth affected by anthropogenic and natural long term changes.
1994
AUTHOR: Vago R ...
...ABSTRACT: lead to severe degradation in the viability of aquatic ecosystems. The excessive demands under which coral reef communities are being placed may soon result in the failure and dysfunction of these ...
...to the urgent need for establishing long-term monitoring programs. It has been suggested that coral growth characteristics can serve as biosensors for environmental variables. We therefore propose an in situ method for recording the growth of transplanted and intact coral colonies. The technique permits a facile, highly reproducible and non-destructive long-term monitoring operation.

6/6,K/2 (Item 2 from file: 5)
DIALOG(R)File 5:(c) 2002 BIOSIS. All rts. reserv.
09393274 BIOSIS NO.: 199497401644
Effect of ammonium enrichment on respiration, zooxanthellar densities, and pigment concentrations in two species of Hawaiian corals.
1994
...AUTHOR: Vago Razi
...ABSTRACT: mu-M and 50 mu-M) in microcosm tanks. Nubbins represent replicates of a single coral colony We examined the effect of ammonium enrichment on zooxanthellar densities, pigment concentrations, and respiration...

6/6,K/3 (Item 3 from file: 5)

DIALOG(R)File 5:(c) 2002 BIOSIS. All rts. reserv.
09321430 BIOSIS NO.: 199497329800
Computerized tomography and image analysis: A tool for examining the skeletal characteristics of reef-building organisms.
1994
AUTHOR: Vago R ...
...ABSTRACT: skeleton. A high proportion of the bladed morphotypes was found to be infested by the coral -inhabiting barnacle Savignium milleporum. The barnacles were embedded in the host skeleton, enhancing skeletal deformation.

6/6,K/4 (Item 1 from file: 73)
DIALOG(R)File 73:(c) 2002 Elsevier Science B.V. All rts. reserv.
06808612 EMBASE No: 1997091100
Laser measurements of coral growth (11)
1997
Vago R. ; Gill E.; Collingwood J.C.
DRUG DESCRIPTORS:* coral

File 155:MEDLINE(R) 1966-2002/Sep W1
File 5:Biosis Previews(R) 1969-2002/Sep W1
File 73:EMBASE 1974-2002/Aug W4
File 34:SciSearch(R) Cited Ref Sci 1990-2002/Sep W2
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec

Set	Items	Description
S1	26	AU='VAGO R':AU='VAGO RAZI'
S2	14	RD (unique items)
S3	24481	CORAL OR ACROPORA()GRANDIS
S4	11	S2 AND S3
S5	7	S4/2002 OR S4/2001 OR S4/2000 OR S4/1999 OR S4/1998
S6	**4**	**S4 NOT S5**

2/6/1 (Item 1 from file: 144)
13085297 PASCAL No.: 97-0380059
High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral Acropora grandis
1997

2/6/2 (Item 1 from file: 5)
11812105 BIOSIS NO.: 199900058214
The subcellular mechanism of the release of zooxanthellae during coral bleaching.
1998

2/6/3 (Item 2 from file: 5)
06255836 BIOSIS NO.: 000086090019
SEXUAL REPRODUCTION OF CORALS IN OKINAWA JAPAN
1988

File 155:MEDLINE(R) 1966-2002/Sep W1
File 144:Pascal 1973-2002/Sep W2
File 5:Biosis Previews(R) 1969-2002/Sep W1
File 6:NTIS 1964-2002/Sep W3
File 8:Ei Compendex(R) 1970-2002/Sep W1
File 99:Wilson Appl. Sci & Tech Abs 1983-2002/Jul

File 238:Abs. in New Tech & Eng. 1981-2002/Aug
File 65:Inside Conferences 1993-2002/Sep W2
File 77:Conference Papers Index 1973-2002/Sep
File 73:EMBASE 1974-2002/Aug W4
File 34:SciSearch(R) Cited Ref Sci 1990-2002/Sep W2
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 94:JICST-EPlus 1985-2002/Jul W2
File 35:Dissertation Abs Online 1861-2002/Aug

Set	Items	Description
S1	5	ACROPORA()GRANDIS
S2	**3**	**RD (unique items)**

2/6,K/1 (Item 1 from file: 98)
DIALOG(R)File 98:(c) 2002 The HW Wilson Co. All rts. reserv.
04016773 H.W. WILSON RECORD NUMBER: BGSI99016773 (USE FORMAT 7 FOR FULLTEXT)
Organism responses to rapid change: what aquaria tell us about nature
WORD COUNT: 7611
Feb. 1999 (19990200)
TEXT:
... In 1995, while in the Solomon Islands, we maintained four, 5 cm fragments of Acropora grandis , and A. latistella for 18 days in a 4-liter, clear plastic container. The corals...in the same aquarium with corals obtained from wave-swept fore-reef environments, e.g., Acropora grandis ...

2/6,K/2 (Item 2 from file: 98)
DIALOG(R)File 98:(c) 2002 The HW Wilson Co. All rts. reserv.
04016772 H.W. WILSON RECORD NUMBER: BGSI99016772 (USE FORMAT 7 FOR FULLTEXT)
The physiological mechanisms of acclimatization in tropical reef corals.
WORD COUNT: 9106
Feb. 1999 (19990200)
TEXT:
... M. annularis (hsp 70; Hayes and King, 1995), M. franksi (hsp 70; Fig. 1) and Acropora grandis (hsp 35, 60 and 70; Fang et al., 1997). Interestingly, intertidal G. djiboutiensis exhibit high...the synthesis of heat-shcok proteins and the elevation of intracellular calcium in the coral Acropora grandis . Coral Reefs 16:127-131.
Falkowski, P. G., P. L. Jokiel, and R. A. Kinzie...

2/6,K/3 (Item 3 from file: 98)
DIALOG(R)File 98:(c) 2002 The HW Wilson Co. All rts. reserv.
03510724 H.W. WILSON RECORD NUMBER: BGSA97010724
Laser measurements of coral growth.
Mar. 6 1997 (19970306)
...ABSTRACT: coral. Linear extension of the tips of branches of the Great Barrier Reef staghorn coral (Acropora grandis Brook) was determined by measuring changes in the distances between lines in the diffraction pattern...
DESCRIPTORS: ...Invertebrates; Acropora grandis ; Lasers...

2/6,K/4 (Item 1 from file: 88)
DIALOG(R)File 88:(c) 2002 The Gale Group. All rts. reserv.
06035971 SUPPLIER NUMBER: 81891793
Competition for space among sessile marine invertebrates: Changes in HSP70 expression in two pacific cnidarians.
Dec, 2001

WORD COUNT: 7091 LINE COUNT: 00586
... al., 1994). HSP60 has known roles in thermal acclimation of the cnidarians Hydra vulgaris and Acropora grandis (Bosch et al., 1988; Fang et al., 1997). The use of SPA-822 HSP70 antiserum...the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral Acropora grandis . Coral Reefs 16: 127-131.
Feder, M. E., and G. E. Hofmann. 1999. Heat-shock...

2/6,K/5 (Item 2 from file: 88)
DIALOG(R)File 88:(c) 2002 The Gale Group. All rts. reserv.
04274915 SUPPLIER NUMBER: 19465035
Laser measurements of coral growth.
March 6, 1997
ABSTRACT: An underwater laser apparatus was used to measure skeletal extension in the staghorn coral Acropora grandis Brook. Branches of coral were placed inside short plastic tubings and remained undisturbed for at...

File 98:General Sci Abs/Full-Text 1984-2002/Jul
File 9:Business & Industry(R) Jul/1994-2002/Sep 06
File 16:Gale Group PROMT(R) 1990-2002/Sep 09
File 160:Gale Group PROMT(R) 1972-1989
File 148:Gale Group Trade & Industry DB 1976-2002/Sep 09
File 621:Gale Group New Prod.Annou.(R) 1985-2002/Sep 06
File 636:Gale Group Newsletter DB(TM) 1987-2002/Sep 09
File 95:TEME-Technology & Management 1989-2002/Sep W2
File 441:ESPICOM Pharm&Med DEVICE NEWS 2002/Sep W1
File 20:Dialog Global Reporter 1997-2002/Sep 09
File 813:PR Newswire 1987-1999/Apr 30
File 15:ABI/Inform(R) 1971-2002/Sep 09
File 88:Gale Group Business A.R.T.S. 1976-2002/Sep 06
File 442:AMA Journals 1982-2002/Aug B1
File 444:New England Journal of Med. 1985-2002/Sep W2
File 149:TGG Health&Wellness DB(SM) 1976-2002/Sep W1
Set Items Description
S1 5 ACROPORA()GRANDIS
S2 5 RD (unique items)

File 350:Derwent WPIX 1963-2002/UD,UM &UP=200257
File 344:Chinese Patents Abs Aug 1985-2002/Aug
File 347:JAPIO Oct 1976-2002/May(Updated 020903)
File 371:French Patents 1961-2002/BOPI 200209
Set Items Description
S1 0 ACROPORA()GRANDIS

File 348:EUROPEAN PATENTS 1978-2002/Sep W01
File 349:PCT FULLTEXT 1983-2002/UB=20020905,UT=20020829
Set Items Description
S1 1 ACROPORA()GRANDIS [a duplicate]

1/7/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2002 Thomson Derwent. All rts. reserv.
013360953

WPI Acc No: 2000-532892/200048
Novel pigment protein derived from corals capable of emitting fluorescence upon irradiation by incident light useful as tissue marker, fluorescent marker or general dyestuff
Patent Assignee: UNIV SYDNEY (UNSY)
Inventor: DOVE S; HOEGH-GULDBERG O
Number of Countries: 091 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200046233	A1	20000810	WO 2000AU56	A	20000202	200048	B
AU 200026483	A	20000825	AU 200026483	A	20000202	200059	
EP 1155028	A1	20011121	EP 2000904699	A	20000202	200176	
			WO 2000AU56	A	20000202		
CN 1345330	A	20020417	CN 2000805766	A	20000202	200248	

Priority Applications (No Type Date): AU 998463 A 19990202
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200046233	A1	E	49	C07H-021/04	
AU 200026483	A			C07H-021/04	Based on patent WO 200046233
EP 1155028	A1	E		C07H-021/04	Based on patent WO 200046233
CN 1345330	A			C07H-021/04	

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SL SZ TZ UG ZW
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI

Abstract (Basic): WO 200046233 A1

NOVELTY - A protein (I) comprising the N-terminal amino acid sequence of SVIAK or SVIAKQMTYKVYMSGTVN in a substantial purified form, or a fully defined Acropora aspera protein sequence of 231 (S1) or 235 amino acids as given in the specification, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) an isolated polynucleotide molecule (II) comprising a nucleotide sequence encoding a pigment protein from coral tissue (PPCT) (I) capable of emitting fluorescence upon irradiation by incident light whose maximal absorbance is in the range of 320-600 nm and a maximal fluorescence emission is in the range of 300-700 nm;

(2) a vector (III) comprising (II);

(3) a host cell (IV) transfected or transformed with (III);

(4) preparation of (I);

(5) an oligonucleotide probe or primer (V) comprising a nucleotide sequence that hybridizes selectively to (II);

(6) use of (I) as a tissue marker, fluorescent marker or general dye stuff;

(7) a sunscreen formulation comprising (I); and

(8) a filter (VI) for screening UV or other wavelength(s) of incident light comprising (I).

USE - (I) is used as a tissue marker, fluorescent marker or general dyestuff (all claimed). The protein could be used as a marker for following gene expression in transformed tissues. Product may be used in sunscreen formulations or UV filters (both claimed).

pp; 49 DwgNo 0/10

Derwent Class: B04; D16; D21; E14
International Patent Class (Main): C07H-021/04
International Patent Class (Additional): A61K-007/42; A61P-043/00;
C07K-014/435; C12N-015/12; C12N-015/74

File 350:Derwent WPIX 1963-2002/UD,UM &UP=200257
File 344:Chinese Patents Abs Aug 1985-2002/Aug
File 347:JAPIO Oct 1976-2002/May(Updated 020903)
File 371:French Patents 1961-2002/BOPI 200209
Set Items Description
S1 2 ACROPORA

3/3,AB/1 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00405433
IMPROVED POROUS BIOMATERIALS AND METHODS FOR THEIR MANUFACTURE
BIOMATERIAUX POREUX AMELIORES, ET PROCEDES DE PRODUCTION ASSOCIES
Patent Applicant/Assignee:
INTERPORE INTERNATIONAL,
Inventor(s):
WHITE Eugene W,
DEBES Jack C,
HARRIS Clayton G,
SHORS Edwin C,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9746178 A1 19971211
Application: WO 97US9436 19970603 (PCT/WO US9709436)
Priority Application: US 96659879 19960607
Designated States: AU BR CA CN IL JP KR MX AM AZ BY KG KZ MD RU TJ TM AT BE
CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 6581
English Abstract
An improved porous ceramic biomaterial is disclosed in which a polymer such as polylactic acid is polymerized in situ to fill the micropores substantially without filling the macropores. The polymer reinforcement helps improve the strength of the implant while preserving its ability to support ingrowth of bone to help integrate the implant into its surgical environment.

3/3,AB/2 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00295617
OSTEOGENIC PRODUCT AND PROCESS
PRODUIT OSTEOGENE ET SON PROCEDE D'UTILISATION
Patent Applicant/Assignee:
INTERMEDICS ORTHOPEDICS DENVER INC,
Inventor(s):
POSER James William,
BENEDICT James John,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9513767 A1 19950526
Application: WO 94US13351 19941115 (PCT/WO US9413351)

Priority Application: US 93519 19931116
Designated States: CA JP AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
Publication Language: English
Fulltext Word Count: 7768
English Abstract

Disclosed is a product which includes calcium carbonate and bone growth factor useful for the promotion of bone formation when implanted in the body. The calcium carbonate is preferably in the form of aragonite which can be recovered from naturally occurring coral. A preferred bone growth factor of the present invention is a protein mixture purified from bone. Also disclosed is a process for the induction of bone formation which includes implanting the product in a body. The product and process of the present invention are particularly useful in hip replacement operations, knee replacement operations, spinal fusion operations, repair of periodontal defects, treatment of osteoporosis, repair of bone tumor defects and repair of bone fractures.

4/26,TI/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2002 European Patent Office. All rts. reserv.
00666310
USE OF PARTICLES OF A BIOCOMPATIBLE, BIOABSORBABLE CALCIUM SALT AS ACTIVE PRINCIPLE IN THE PREPARATION OF A MEDICAMENT FOR LOCAL TREATMENT OF BONE DEMINERALIZING DISEASES

4/26,TI/5 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00733246
PIGMENT PROTEIN FROM CORAL TISSUE
Publication Year: 2000

4/26,TI/6 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00494461
METHOD FOR INDUCING OSTEOBLAST DIFFERENTIATION OF HUMAN EXTRAMEDULLARY ADIPOSE TISSUE CELLS
Publication Year: 1999

4/26,TI/8 (Item 4 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00423594
ROTATING AQUARIUM
Publication Year: 1998

4/26,TI/10 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00278146
USE OF A CALCIUM CARBONATE BASED POROUS MATERIAL AS SUPPORT FOR A GROWTH FACTOR IN THE PREPARATION OF A BIOABSORBABLE IMPLANT
Publication Year: 1994

4/26,TI/11 (Item 7 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00278107
USE OF PARTICLES OF A BIOCOMPATIBLE, BIOABSORBABLE CALCIUM SALT AS ACTIVE PRINCIPLE IN THE PREPARATION OF A MEDICAMENT FOR LOCAL TREATMENT OF BONE DEMINERALIZING DISEASES
Publication Year: 1994

4/26,TI/12 (Item 8 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00227932
USE OF POROUS CALCIUM CARBONATE AS A SUPPORT MATERIAL FOR IN VITRO CELL CULTURE
Publication Year: 1993

4/26,TI/13 (Item 9 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00129843
ULTRA VIOLET AGENTS
Publication Year: 1986

4/3/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2002 European Patent Office. All rts. reserv.
00874487
MACROPOROUS COMPOSITE FOR CARRYING ONE OR MORE MEDICINAL SUBSTANCES AND FOR USE AS A BONE RECONSTRUCTION MATERIAL, AND METHOD FOR MAKING SAME
MAKROPOROSES KOMPOSIT ALS TRAGERSUBSTANZ FUR MEDIKAMENTE UND ZUR VERWENDUNG ALS KNOCHENERSATZMATERIAL
COMPOSITE MACROPOREUX SUPPORT DE SUBSTANCE(S) MEDICAMENTEUSE(S) UTILISABLE COMME MATERIAU DE RECONSTITUTION OSSEUSE ET PROCEDE D'ELABORATION
PATENT ASSIGNEE:
UNIVERSITE DE RENNES I, (682241), 2, rue du Thabor, F-35000 Rennes, (FR), (Proprietor designated states: all)
INVENTOR:
LUCAS, Anita, 113, avenue Aristide-Briand, F-35000 Rennes, (FR)
MICHEL, Jean-Francois, 19, rue Victor-Bash, F-35700 Rennes, (FR)
GAUDE, Jean, 13, avenue des Onglees, F-35690 Acigne, (FR)
CAREL, Claude, 27A, cours Rapha l-Binet, F-35000 Rennes, (FR)
LEGAL REPRESENTATIVE:
Vidon, Patrice (73591), Cabinet Patrice Vidon Le Nobel (Bat. A) Technopole Atalante 2, allee Antoine Becquerel BP 90333, 35703 Rennes Cedex 7, (FR)
PATENT (CC, No, Kind, Date): EP 1019108 A1 000719 (Basic)
EP 1019108 B1 020502
WO 9726024 970724
APPLICATION (CC, No, Date): EP 97900225 970102; WO 97FR7 970102
PRIORITY (CC, No, Date): FR 96560 960115
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FI; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE
INTERNATIONAL PATENT CLASS: A61L-027/00
CITED PATENTS (EP B): EP 22724 A; EP 159087 A; EP 395187 A; WO 87/07826 A; WO 94/26322 A; US 3890107 A
NOTE: No A-document published by EPO

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LEGAL STATUS (Type, Pub Date, Kind, Text):
 Application:      000719 A1 Published application with search report
 Application:      971015 A1 International application (Art. 158(1))
 Grant:            020502 B1 Granted patent
 Examination:      000719 A1 Date of request for examination: 19980702
 Examination:      010725 A1 Date of dispatch of the first examination
                             report: 20010607
LANGUAGE (Publication,Procedural,Application): French; French; French
FULLTEXT AVAILABILITY:
Available Text  Language   Update    Word Count
      CLAIMS B  (English)  200218      381
      CLAIMS B   (German)  200218      368
      CLAIMS B   (French)  200218      356
      SPEC B     (French)  200218     2876
Total word count - document A           0
Total word count - document B        3981
Total word count - documents A + B   3981

4/3,AB/3     (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2002 European Patent Office. All rts. reserv.
00395886
Coated biomaterials and methods for making same
Beschichtete Biomaterialien und Verfahren zu ihrer Herstellung
Biomateriaux revetus et leur procede de fabrication
PATENT ASSIGNEE:
  INTERPORE INTERNATIONAL, (943980), 18008 Skypark Circle, Irvine
    California 92714, (US), (applicant designated states:
    AT;BE;CH;DE;DK;ES;FR;GB;GR;IT;LI;LU;NL;SE)
INVENTOR:
  White, Eugene W., Route 1, Box 182, Rossiter, Pennsylvania 15772, (US)
  Shors, Edwin C., 6520 Via Siena, Rancho Palos Verdes, California 90272,
    (US)
LEGAL REPRESENTATIVE:
  Smulders, Theodorus A.H.J., Ir. et al (21191), Vereenigde Octrooibureaux
    Nieuwe Parklaan 97, NL-2587 BN 's-Gravenhage, (NL)
PATENT (CC, No, Kind, Date):  EP 395187  A2  901031 (Basic)
                              EP 395187  A3  910724
                              EP 395187  B1  960124
APPLICATION (CC, No, Date):   EP 90201079 900427;
PRIORITY (CC, No, Date): US 345194 890428
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IT; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: A61L-027/00;
CITED PATENTS (EP A): EP 278583 A; EP 22724 A; FR 2223325 A; EP 159087 A;
  WO 8601726 A; EP 230570 A
CITED REFERENCES (EP A):
  WORLD PATENT INDEX (LATEST) accession no. 84-259285, week 42, Derwent
    Publications Ltd, London, GB; & JP-A-59 156 488 (KURITA WATER IND.
    K.K.) 05-09-1984;
ABSTRACT EP 395187 A2
    Biomaterials useful for onthopedicanel dental applications is
  disclosed. These materials have a base portion of calcium carbonate and a
  surface layer of a synthetic phosphate such as hydroxyapatite. The base
  portion may be a calcium carbonate structure having three-dimensional
  interconnected porosity such as may be found in porous skeletal carbonate
  of marine life, e.g. coral porites skeletal aragonite, or it may be
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porous or non-porous granules of calcium carbonate.
A method for making the biomaterials is also disclosed. The synthetic phosphate surface is made using a hydroconversion reaction with a soluble or solubilized phosphate such as ammonium dibasic phosphate ((NH(sub 4))(sub 2)HPO(sub 4)).
ABSTRACT WORD COUNT: 107

4/3,AB/7 (Item 3 from file: 349) a duplicate of 1/7/3 on page 3
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00471266
SHAPED PRODUCTS OR STRUCTURES FOR MEDICAL OR RELATED PURPOSES
PRODUITS OU STRUCTURES FORMES POUR APPLICATIONS MEDICALES
Patent Applicant/Assignee:
AUSTRALIAN INSTITUTE OF MARINE SCIENCE,
VAGO Razo,
Inventor(s):
VAGO Razo,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9902200 A1 19990121
Application: WO 98AU519 19980706 (PCT/WO AU9800519)
Priority Application: AU 977706 19970707; AU 977705 19970707
Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: A61L-027/00
International Patent Class: A61L-031/00
Publication Language: English
Fulltext Word Count: 4533
English Abstract
A shaped product or structure, including a prosthetic or implant device, for medical or related purposes is characterised in that it is formed from coral.

4/3,AB/9 (Item 5 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00385281 **Image available**
MACROPOROUS COMPOSITE FOR CARRYING ONE OR MORE MEDICINAL SUBSTANCES AND FOR USE AS A BONE RECONSTRUCTION MATERIAL, AND METHOD FOR MAKING SAME
COMPOSITE MACROPOREUX SUPPORT DE SUBSTANCE(S) MEDICAMENTEUSE(S) UTILISABLE COMME MATERIAU DE RECONSTITUTION OSSEUSE ET PROCEDE D'ELABORATION
Patent Applicant/Assignee:
UNIVERSITE DE RENNES 1,
LUCAS Anita,
MICHEL Jean-Francois,
GAUDE Jean,
CAREL Claude,
Inventor(s):
LUCAS Anita,
MICHEL Jean-Francois,
GAUDE Jean,
CAREL Claude,

Patent and Priority Information (Country, Number, Date):
Patent: WO 9726024 A1 19970724
Application: WO 97FR7 19970102 (PCT/WO FR9700007)
Priority Application: FR 96560 19960115
Designated States: AL AM AT AT AU AZ BA BB BG BR BY CA CH CN CU CZ CZ DE DE DK DK EE EE ES FI FI GB GE HU IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SK TJ TM TR TT UA UG US UZ VN KE LS MW SD SZ UG AM AZ BY KG KZ MD RU TJ TM AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Main International Patent Class: A61L-027/00
Publication Language: English
Fulltext Word Count: 3554
English Abstract

A macroporous composite for use as a bone reconstruction material and consisting of a combination of synthetic aragonite and at least one medicinal substance such as an antibiotic in particular, is disclosed. A method for making a composite by preparing a mixture including synthetic aragonite grains and at least one pore-forming agent, compacting the mixture and heating the resulting material to remove the pore-forming agent, at least one medicinal substance being added before or after the removal of the pore-forming agent, is also disclosed.

4/3,AB/10 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00278146
USE OF A CALCIUM CARBONATE BASED POROUS MATERIAL AS SUPPORT FOR A GROWTH FACTOR IN THE PREPARATION OF A BIOABSORBABLE IMPLANT
UTILISATION D'UN MATERIAU POREUX A BASE DE CARBONATE DE CALCIUM COMME SUPPORT POUR UN FACTEUR DE CROISSANCE DANS LA PREPARATION D'UN IMPLANT BIORESORBABLE
Patent Applicant/Assignee:
INOTEB,
PATAT Jean-Louis,
OUHAYOUN Jean-Pierre,
Inventor(s):
PATAT Jean-Louis,
OUHAYOUN Jean-Pierre,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9426322 A1 19941124
Application: WO 94FR565 19940511 (PCT/WO FR9400565)
Priority Application: FR 935783 19930513; FR 9313740 19931117
Designated States: AU CA JP US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: A61L-027/00
International Patent Class: A61K-48:00
Publication Language: French
Fulltext Word Count: 3321
English Abstract

Use of a calcium carbonate based porous material as support for at least one growth factor in the preparation of a bioabsorbable implant to be placed in a living animal organism, in particular a vertebrate. In the case of an osteoinductive growth factor, the implant may be a bone filler or may be placed in a conjunctive tissue where it will generate bone tissue for use as an autograft. In the case of a non-osteoinductive growth factor, the implant may be used to grow cells in vivo. It is, for

example, possible to use a hollow implant into which modified autologous cells are introduced, particularly by gene insertion. Once in place, the implant becomes an organoid correcting, for example, a dysfunction of genetic origin.

4/3,AB/11 (Item 7 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.
00278107
USE OF PARTICLES OF A BIOCOMPATIBLE, BIOABSORBABLE CALCIUM SALT AS ACTIVE PRINCIPLE IN THE PREPARATION OF A MEDICAMENT FOR LOCAL TREATMENT OF BONE DEMINERALIZING DISEASES
UTILISATION DE PARTICULES D'UN SEL DE CALCIUM BIOCOMPATIBLE ET BIORESORBABLE COMME INGREDIENT ACTIF DANS LA PREPARATION D'UN MEDICAMENT DESTINE AU TRAITEMENT LOCAL DES MALADIES DEMINERALISANTES DE L'OS
Patent Applicant/Assignee:
INOTEB,
PATAT Jean-Louis,
CIROTTEAU Yves,
Inventor(s):
PATAT Jean-Louis,
CIROTTEAU Yves,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9426283 A1 19941124
Application: WO 94FR564 19940511 (PCT/WO FR9400564)
Priority Application: FR 935783 19930513
Designated States: AU CA JP US AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
Main International Patent Class: A61K-033/10
International Patent Class: A61K-33:06; A61L-27:00
Publication Language: French
Fulltext Word Count: 2872
English Abstract
Use of at least one biocompatible, bioabsorbable calcium salt in the form of particles smaller than 8 mm as active principle in the preparation of a medicament for local treatment of bone demineriliz ing diseases or bone mineralization disorders by implantation thereof in the spongy portion or medullary canal of the bone, particularly for restarting the process of bone remineralization and reconstruction of the absorbed trabeculae of bone. In patients suffering from osteoporosis, for example, this treatment shows reinitialization of the remineralization process and reconstruction of the trabeculae of bone, with a considerable increase in the bone stock of the bone treated.

File 348:EUROPEAN PATENTS 1978-2002/Sep W01
File 349:PCT FULLTEXT 1983-2002/UB=20020905,UT=20020829

Set	Items	Description
S1	15	ACROPORA
S2	28799	IC='A61F'
S3	**2**	**S1 AND S2**
S4	**13**	**S1 NOT S3**

8/6/2 (Item 2 from file: 144)
12032955 PASCAL No.: 95-0226382
Preliminary evidence for directional allelopathic effects of the soft

coral Sinularia flexibilis (Alcyonacea: Octocorallia) on scleractinian coral recruitment
1995

8/6/5 (Item 5 from file: 5)
09824259 BIOSIS NO.: 199598279177
Depth-dependent responses to solar ultraviolet radiation and oxidative stress in the zooxanthellate coral Acropora microphthalma.
1995

8/6/6 (Item 6 from file: 5)
09407942 BIOSIS NO.: 199497416312
Cross-continental shelf trends in delta-13C in coral on the Great Barrier Reef.
1994

8/6/8 (Item 8 from file: 5)
07819766 BIOSIS NO.: 000092100952
GEOGRAPHICALLY SPECIFIC RECRUITMENT AND POSTSETTLEMENT MORTALITY AS INFLUENCES ON CORAL COMMUNITIES THE CROSS-CONTINENTAL SHELF TRANSPLANT EXPERIMENT
1991

8/6/10 (Item 10 from file: 6)
1208321 NTIS Accession Number: PB86-101086
Effects of Turbidity on Calcification Rate, Protein Concentration and the Free Amino Acid Pool of the Coral ' Acropora cervicornis'
(Journal article)
c1985

8/6/11 (Item 11 from file: 6)
1190636 NTIS Accession Number: PB85-219350
Effect of Eight Outer Continental Shelf Drilling Muds on the Calcification Rate and Free Amino Acid Pool of the Coral ' Acropora cervicornis'
(Journal article)
c1984

8/6/12 (Item 12 from file: 6)
1124017 NTIS Accession Number: PB84-212851
Importance of Monitoring Metabolic Recovery in the Coral ' Acropora cervicornis' after Short-Term Exposure to Drilling Muds: Calcification Rate and Protein Concentration
(Journal article)
c1984

8/6/13 (Item 13 from file: 6)
1118148 NTIS Accession Number: PB84-196096
Recovery by the Coral ' Acropora cervicornis' After Drilling Mud Exposure: The Free Amino Acid Pool
(Journal article)
c1984

8/6/14 (Item 14 from file: 35)
865720 ORDER NO: AAD84-27560
HISTOCOMPATIBILITY BIOASSAYS FOR THE IDENTIFICATION OF CLONES IN CORAL AND

SPONGE POPULATIONS
Year: 1984

8/6/15 (Item 15 from file: 6)
1027531 NTIS Accession Number: PB83-181560
Physiological Effects of Drilling Muds on Reef Corals
Mar 83

8/6/16 (Item 16 from file: 5)
03609479 BIOSIS NO.: 000074025056
RELEASE AND UPTAKE OF AMMONIA NITRATE AND ORTHO PHOSPHATE BY SOME CORALS
1981

8/6/17 (Item 17 from file: 73)
01139560 EMBASE No: 1978270117
Diurnal productivity and apparent sup 1sup 4C-calcification in the staghorn coral, Acropora acuminata
1978

8/6/18 (Item 18 from file: 6)
0739184 NTIS Accession Number: PB-289 290/9/XAB
The Behavior of Heterotypic Resting Schools of Juvenile Grunts (Pomadasyidae)
cl Apr 77

8/6/19 (Item 19 from file: 6)
0807027 NTIS Accession Number: AD-A080 111/8/XAB
Comparative Growth Rates of Some Reef Corals in the Caribbean
(Final rept)
Feb 68

8/6/20 (Item 20 from file: 77)
4628684
Supplier Accession Number: 02-00395 V30N01
Gene structure and larval expression of the empty spiracles ortholog, EMX-AM, in reef-building coral, Acropora millepora (Cnidaria; Anthozoa)

8/6/21 (Item 21 from file: 77)
4599133
Supplier Accession Number: 01-05429 V29N05
Gene structure and larval expression of the empty spiracles ortholog, emx-Am, in the anthozoan cnidarian, Acropora millepora

8/7/1 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.
12025162 BIOSIS NO.: 199900305681
Natural coral as bone graft in experimental dogs - Histopathological studies.
AUTHOR: Murthy BN Shadakshara(a); Srinivas C L(a); Ranganath B N(a); Jayadevappa S M(a); Vijayasarathi S K
AUTHOR ADDRESS: (a)Department of Veterinary Surgery and Radiology, Veterinary College, U.A.S., Bangalore, 560 024**India
JOURNAL: Journal of Veterinary and Animal Sciences 27 (2):p121-124 Dec., 1996
ISSN: 0971-0701

DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ABSTRACT: Natural coral was used to correct bone defect in nine dogs in which fracture and bone defect was created experimentally. Histopathological examinations on 4th, 10th and 16th post-operative week confirmed biocompatability and acceptance of the graft, indicating that natural coral could be successfully employed as bone graft in orthopedic surgery, in dogs.

8/7/3 (Item 3 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.
10333190 BIOSIS NO.: 199698788108
The ultrastructural study of the subcutaneous and the tooth extracted cavity implants of the coral.
AUTHOR: Sugaya K; Kozawa Y; Izumi H
AUTHOR ADDRESS: Nihon Univ., Sch. Dent. at Matsudo, 271 Chiba**Japan
JOURNAL: Bulletin de l'Institut Oceanographique (Monaco) 0 (SPEC. ISSUE 14 PART 3):p79-84 1995
ISSN: 0304-5722
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: The purpose of this study is to examine the fundamental tissue reaction of the coral Porites cylindrica as a bone substitute in subcutaneous and the extracted teeth cavity implants of rats with light- and electron-microscopy. Up to 1 week after the subcutaneous implants , the corals were surrounded with fibrous connective tissues of 1-2 layers and simultaneously with inflammatory cells. After 2 weeks, multinucleate giant cells (MGCs) forming complex processes on the coral surface, were observed around the corals. These processes were composed of the branching filopodia and the clear zone-like structure as the osteoclasts. After 3-4 weeks, the corals were surrounded with dense fibrous connective tissues including MGCs. The MGC formed complex entanglement processes with the surrounding macrophage-like cell, whose processes were partly continued between the both cytoplasms. The MGCs may arise by the fusion of macrophage-like cells. After 2 months, the corals were absorbed by MGCs and macrophages and completely disappear. The MGCs differed from osteoclasts because tartrate-resistant acid phosphatases (TRAP) activity was not observed in the MGCs. Inflammations were scarcely recognized in subcutaneous implants of the coral and were immediately absorbed in tissue. So the bioaffinity of natural coral as a bone graft substitute was excellent. In the extracted teeth cavity implants , TRAP-positive and non-positive cells were observed around the corals. Positive MGCs, lying near the bone, were similar in structure to osteoclasts, but did not form characteristic ruffled borders on the processes adjacent to the coral.

8/7/4 (Item 4 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.
10331451 BIOSIS NO.: 199698786369
Natural corals used as bone graft substitutes.
AUTHOR: Guillemin G(a); Patat J-L; Meunier A(a)

AUTHOR ADDRESS: (a)Lab. Recherches Orthopediques, UA CNRS 1432, Paris** France
JOURNAL: Bulletin de l'Institut Oceanographique (Monaco) 0 (SPEC. ISSUE 14 PART 3):p67-77 1995
ISSN: 0304-5722
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
ABSTRACT: 1) Experiments have been performed to investigate the use of coral skeletons as bone graft substitutes. Skeletal fragments of different coral genera (CaCO-3) were implanted into cortical and spongy bone defects and used to bridge transcortical resections in the femur. The implants were monitored up to 18 months. Radiographically, both cortical and spongy bone defects were at least partially filled with new bone after 8 weeks while the implants underwent continuous resorption. Coral resorption and replacement by new tissue were also observed in the transcortical resections. The process of resorption was attributed to the enzymatic attack, especially carbonic anhydrase. This was confirmed by experiments in which dogs were implanted with coral and treated daily with acetazolamide, a specific carbonic anhydrase inhibitor; the absorption appeared delayed and the resections failed to heal. 2) Rates of resorption and replacement of two Madreporian corals, Porites and Acropora , were quantified after implantation in two animal species (sheep and pig). Both corals have an identical chemical composition but differ in volume (49 +- 2% and 12 +- 4% respectively) and mean size (250 vs 500 mm) porosities. Implant resorption and new bone formation were quantified through an automatic image analysis system. Quantitative results showed that the larger porosity volume, the greater was the coral resorption as well as the new bone apposition. Large differences were found between the two animal species. Coral was found to be an osteoconductive biomaterial which acts as a scaffold for a direct osteoblastic apposition and consequently could be an interesting alternative to bone auto-, allo- or xenografts.

8/7/7 (Item 7 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)
(c) 2002 BIOSIS. All rts. reserv.
08699946 BIOSIS NO.: 199345118021
Evolution, ecology and cancer.
AUTHOR: Khudolei V V
AUTHOR ADDRESS: N.N. Petrov Res. Inst. Oncol., Acad. Med. Sci. Russ., St. Petersburg**Russia
JOURNAL: Eksperimental'naya Onkologiya 15 (2):p3-8 1993
ISSN: 0204-3564
DOCUMENT TYPE: Literature Review
RECORD TYPE: Citation
LANGUAGE: Russian; Non-English
SUMMARY LANGUAGE: Russian; English

8/7/9 (Item 9 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
06204714 89291927 PMID: 2738087
Comparison of coral resorption and bone apposition with two natural corals of different porosities.
Guillemin G; Meunier A; Dallant P; Christel P; Pouliquen J C; Sedel L
Laboratoire de Recherches Orthopediques, U.A. CNRS 1161, Paris, France.

Journal of biomedical materials research (UNITED STATES) Jul 1989, 23 (7) p765-79, ISSN 0021-9304 Journal Code: 0112726
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: Completed

Previous studies showed that natural coral implanted into bone tissue was gradually resorbed and progressively replaced by newly formed bone. The objectives of this study were to compare the fate of two Madreporian corals, Porites and Acropora , after implantation during 1 and 2 months into sheep and pig long bones. These materials are identical in composition (CaCo3) but differ in volume (49 +/- 2%, 12 +/- 4%, respectively) and mean size (250 vs. 500 microns) of porosities. The non-decalcified histological slices were observed under light microscopy. Implant resorption and new bone formation were quantified through an automatic image analysis system. Quantitative results showed that the larger the porosity volume, the greater was the coral resorption as well as the new bone apposition. Large differences were found between the two animal species. Histological findings were identical to those previously reported: implants were resorbed and progressively replaced by newly formed bone. Coral was found to be an osteoconductive biomaterial which acted as a scaffold for a direct osteoblastic apposition and consequently could be an interesting alternative to bone auto-, allo-, or xenografts.
Record Date Created: 19890804

File 155:MEDLINE(R) 1966-2002/Sep W1
File 144:Pascal 1973-2002/Sep W2
File 5:Biosis Previews(R) 1969-2002/Sep W1
File 6:NTIS 1964-2002/Sep W3
File 8:Ei Compendex(R) 1970-2002/Sep W1
File 99:Wilson Appl. Sci & Tech Abs 1983-2002/Jul
File 238:Abs. in New Tech & Eng. 1981-2002/Aug
File 65:Inside Conferences 1993-2002/Sep W2
File 77:Conference Papers Index 1973-2002/Sep
File 73:EMBASE 1974-2002/Aug W4
File 34:SciSearch(R) Cited Ref Sci 1990-2002/Sep W2
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
File 94:JICST-EPlus 1985-2002/Jul W2
File 35:Dissertation Abs Online 1861-2002/Aug

Set	Items	Description
S1	1785	ACROPORA
S2	7150378	MEDICIN? OR MEDICAL
S3	1059344	IMPLANT? OR PROSTHE??? OR ORTHO???
S4	36	S1 AND S2:S3
S5	9	S4/2002 OR S4/2001 OR S4/2000 OR S4/1999 OR S4/1998
S6	27	S4 NOT S5
S7	21	RD (unique items)
S8	**21**	**Sort S7/ALL/PY,D**

7/6/1 (Item 1 from file: 88)
04726746 SUPPLIER NUMBER: 19793306
Oxidative stress in the symbiotic sea anemone Aiptasia pulchella (Carlegan, 1943): contribution of the animal to superoxide ion production at elevated temperature.
June, 1997

WORD COUNT: 8728 LINE COUNT: 00715

7/6/2 (Item 2 from file: 88)
04084972 SUPPLIER NUMBER: 18781879
Calcification rates in corals.(includes response)(Technical Comments)
Oct 4, 1996
WORD COUNT: 2352 LINE COUNT: 00193

7/6/3 (Item 3 from file: 88)
03514436 SUPPLIER NUMBER: 16352129
Evolution of Hox genes. (homeobox genes)
Annual, 1994
WORD COUNT: 8952 LINE COUNT: 00710

File 95:TEME-Technology & Management 1989-2002/Sep W2
File 98:General Sci Abs/Full-Text 1984-2002/Jul
File 9:Business & Industry(R) Jul/1994-2002/Sep 06
File 16:Gale Group PROMT(R) 1990-2002/Sep 09
File 160:Gale Group PROMT(R) 1972-1989
File 148:Gale Group Trade & Industry DB 1976-2002/Sep 09
File 621:Gale Group New Prod.Annou.(R) 1985-2002/Sep 06
File 636:Gale Group Newsletter DB(TM) 1987-2002/Sep 09
File 441:ESPICOM Pharm&Med DEVICE NEWS 2002/Sep W1
File 20:Dialog Global Reporter 1997-2002/Sep 09
File 813:PR Newswire 1987-1999/Apr 30
File 15:ABI/Inform(R) 1971-2002/Sep 09
File 88:Gale Group Business A.R.T.S. 1976-2002/Sep 06
File 442:AMA Journals 1982-2002/Aug B1
File 444:New England Journal of Med. 1985-2002/Sep W2
File 149:TGG Health&Wellness DB(SM) 1976-2002/Sep W1

Set	Items	Description
S1	180	ACROPORA
S2	3694244	MEDICIN? OR MEDICAL
S3	269870	IMPLANT? OR PROSTHE??? OR ORTHO???
S4	11	S1 AND S2:S3
S5	8	S4/2002 OR S4/2001 OR S4/2000 OR S4/1999 OR S4/1998
S6	3	S4 NOT S5
S7	**3**	**RD (unique items)**

4/6/1 (Item 1 from file: 185)
01745683 BIOSIS No. 13400018781
High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral Acropora grandis .
1997

4/6/2 (Item 2 from file: 185)
01719919 BIOSIS No. 13300063227
Laser measurements of coral growth.
1997

4/6/3 (Item 3 from file: 185)
00548873 BIOSIS No. 11500048873
The coral genus Acropora (Scleractinia: Astrocoeniina: Acroporidae) in the central and southern Great Barrier Reef Province.
1978

```
 4/6/4     (Item 1 from file: 76)
02209467 4227590
High temperature induces the synthesis of heat-shock proteins and the
  elevation of intracellular calcium in the coral  Acropora   grandis
(1997)

File 185:Zoological Record Online(R) 1978-2002/Aug
File  76:Life Sciences Collection 1982-2002/Aug
File  71:ELSEVIER BIOBASE 1994-2002/Sep W1
Set     Items   Description
S1          8   ACROPORA()GRANDIS
S2          7   RD (unique items)
S3          3   S2/2002 OR S2/2001 OR S2/2000 OR S2/1999 OR S2/1998
S4          4   S2 NOT S3


1/6/1
04221963   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Organism responses to rapid change:  What aquaria tell us about nature
 Feb 1999
WORD COUNT:  7264

 1/6/2
04221962   (USE FORMAT 7 OR 9 FOR FULLTEXT)
The physiological mechanisms of acclimatization in tropical reef corals
 Feb 1999
WORD COUNT:  7919

File 484:Periodical Abs Plustext 1986-2002/Sep W1
Set     Items   Description
S1          2   ACROPORA()GRANDIS
```

4/6/4 (Item 1 from file: 76)
02209467 4227590
High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral Acropora grandis (1997)

File 185:Zoological Record Online(R) 1978-2002/Aug
File 76:Life Sciences Collection 1982-2002/Aug
File 71:ELSEVIER BIOBASE 1994-2002/Sep W1

Set	Items	Description
S1	8	ACROPORA()GRANDIS
S2	7	RD (unique items)
S3	3	S2/2002 OR S2/2001 OR S2/2000 OR S2/1999 OR S2/1998
S4	**4**	**S2 NOT S3**

1/6/1
04221963 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Organism responses to rapid change: What aquaria tell us about nature
Feb 1999
WORD COUNT: 7264

1/6/2
04221962 (USE FORMAT 7 OR 9 FOR FULLTEXT)
The physiological mechanisms of acclimatization in tropical reef corals
Feb 1999
WORD COUNT: 7919

File 484:Periodical Abs Plustext 1986-2002/Sep W1

Set	Items	Description
S1	**2**	**ACROPORA()GRANDIS**

L3 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2001:505893 HCAPLUS
DOCUMENT NUMBER: 135:286002
TITLE: The evolutionary history of the coral genus Acropora (Scleractinia, Cnidaria) based on a mitochondrial and a nuclear marker: reticulation, incomplete lineage sorting, or morphological convergence?
AUTHOR(S): Van Oppen, Madeleine J. H.; McDonald, Brenda J.; Willis, Bette; Miller, David J.
CORPORATE SOURCE: Biochemistry and Molecular Biology and Marine Biology, James Cook University, Townsville, 4811, Australia
SOURCE: Molecular Biology and Evolution (2001), 18(7), 1315-1329
CODEN: MBEVEO; ISSN: 0737-4038
PUBLISHER: Society for Molecular Biology and Evolution
DOCUMENT TYPE: Journal
LANGUAGE: English
AB This study examines mol. relationships across a wide range of species in the mass spawning scleractinian coral genus Acropora. Mol. phylogenies were obtained for 28 species using DNA sequence analyses of 2 independent markers, a nuclear intron and the mtDNA putative control region. Although the compns. of the major clades in the phylogenies based on these 2

markers were similar, there were several important differences. This, in combination with the fact that many species were not monophyletic, suggests either that introgressive hybridization is occurring or that lineage sorting is incomplete. The mol. tree topologies bear little similarity to the results of a recent cladistic anal. based on skeletal morphol. and are at odds with the fossil record. We hypothesize that these conflicting results may be due to the same morphol. having evolved independently more than once in Acropora and/or the occurrence of extensive interspecific hybridization and introgression in combination with morphol. being detd. by a small no. of genes. Our results indicate that many Acropora species belong to a species complex or syngameon and that morphol. has little predictive value with regard to syngameon compn. Morphol. species in the genus often do not correspond to genetically distinct evolutionary units. Instead, species that differ in timing of gamete release tend to constitute genetically distinct clades.

REFERENCE COUNT: 66 THERE ARE 66 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:792660 HCAPLUS
DOCUMENT NUMBER: 130:194192
TITLE: The subcellular mechanism of the release of zooxanthellae during coral bleaching
AUTHOR(S): Fang, Lee-Shing; Wang, Jih-Terng; Lin, Ku-Lin
CORPORATE SOURCE: Inst. Marine Resources, Natl. Sun Yat-Sen University, Kaohsiung, Taiwan
SOURCE: Proceedings of the National Science Council, Republic of China, Part B: Life Sciences (1998), 22(4), 150-158
CODEN: PNBSEF; ISSN: 0255-6596
PUBLISHER: National Science Council
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The subcellular mechanism of how zooxanthellae leave the host cell of ***Acropora*** ***grandis*** under elevated temp. was investigated by using colchicine or cytochalasin D to deteriorate the action of microtubules and microfilaments, resp., N-ethylmaleimide to inhibit the activity of cytoplasmic myosin and dynein, and N-(6-aminohexyl)-5-chloro-1-naphthalene sulfoamide to antagonize calmodulin. The sensitivity of coral cells and zooxanthellae to rising temp. was also examd. indirectly by studying the occurrence of the heat-shock protein 35 kDa in them. The results showed that coral cells synthesized the heat shock protein at a lower temp. than zooxanthellae did, suggesting it could be more sensitive to heat and could trigger the algae releasing process. Immunofluorescence staining of microtubules revealed that when the cytoskeleton network was disrupted by colchicine, the release of algae was also inhibited. The drug interference data indicated that the zooxanthellae had to be transported within cells via the cytoskeleton network by motor proteins, followed by host cell breakage to complete the release process. All this information about the subcellular mechanism of the release of zooxanthellae revealed that exocytosis of the host cell is an important mechanism of coral bleaching under mild environmental stress.

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his
(FILE 'HOME' ENTERED AT 13:38:34 ON 09 SEP 2002)

```
     FILE 'REGISTRY' ENTERED AT 13:38:43 ON 09 SEP 2002
                E ACROPORA GRANDIS/CN
                E CORAL/CN
L1             1 S E3
     FILE 'HCAPLUS' ENTERED AT 13:39:19 ON 09 SEP 2002
L2             0 S L1
L3             2 S ACROPORA GRANDIS
```

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Searched for all of the words: "**acropora grandis**".
Found: **10 total | 0 journal results | 10 Web results**
Sort by relevance | Sort by date

Save Checked Results | Email Checked Results

1. Chien-An Chen Master Thesis Abstract
Apr 2002
...Ornithine Carbamoyltransferase from Coral(**Acropora grandis**) and it's Zooxanthellae Âi@Âi@The detected in the coral **Acropora grandis**. There were two activity fraction in...
[http://www2.nsysu.edu.tw/MBIO/e95-5.htm]
similar results

2. é™³å»ºå®‰ç¢©å£«è«–æ–‡ä¸-è‹±æ˜ˆè¦□
Jan 1999
é™³å»ºå®‰ç¢©å£«è«–æ–‡ä¸-è‹±æ˜ˆè¦□ç□Šç˙š(**Acropora grandis**)å□Šå...±ç"Ÿè—»ä¸-é³¥æ°¨é...¸æ°¨ç"²é†¯åŸºè½‰ç§»è„¢ç‰‰æ€§ä¹‹ "ç©¶...é³¥æ°¨é... ornithine carbamoyltransferase , OCT) åœ¨ç□Šç˙š **Acropora grandis** è□ƒå□-æ¶²ä¸-å□Œæ™‚,ç™¼ç□¾å...©å€‹ï¼Œç¶"å^†é›¢å¾Œç¢ºèª□ä¸€å€‹ä¾†...
[http://www.mbi.nsysu.edu.tw/95-5.htm]
similar results

3. 1995å¹´ç•¢æ¥-è«–æ–‡
Jan 2001
...æŒ‡å°Žæ•™æŽˆæ–¹å§›èiŒåŠ‰èŽ‰è"®) ç□Šç˙š (**Acropora grandis**) å□Šå...±ç"Ÿè—»ä¸-é³¥æ°¨é...¸æ°¨ç"²é†¯æ©Ÿè½‰ç§»è„¢ç‰‰æ€§ä¹‹ "ç©¶...Ornithine Carbamo (**Acropora grandis**) and it's Zooxanthellae è‘‰æ€iå□›...
[http://www.mbi.nsysu.edu.tw/the95.htm]
similar results

4. The Great Barrier Reef and the Coral Sea
No date available
...hard limestone structure. During the night, the polyps willl emerge to filterfeed. **Acropora grandis** numbers of small fish, here the humbug damselfish...
[http://www.susqu.edu/Australia/GBRCS5.html]
similar results

similar results

☐ **5.** Fahrbach
Jul 2001
...of heat-shock proteins and the elevation of intracellular calcium in the coral **Acr p ra grandis**. Co J. (1989). Possible impact of climate change on...
[http://www.pacinst.org/CCWildlife_f.htm]
similar results

☐ **6.** http://www.botany.uq.edu.au/research/marine/publications/pdffiles/thesistsaxby.PDF
May 2001
Table 1: D ifferences in chlorophyll a and chlorophyll c parameters and the density of dinoflagellates following exposure to
[http://www.botany.uq.edu.au/research/marine/publications/pdffiles/thesistsaxby.PDF]
similar results

☐ **7.** http://www.pacinst.org/CCWildlife.pdf
Jul 2001
Prepared by Wil Burns, Senior, Pacific Institute for Studies in
[http://www.pacinst.org/CCWildlife.pdf]
similar results

☐ **8.** http://www.botany.uq.edu.au/research/marine/publications/pdffiles/litreviewtracey.PDF...
May 2001
6. Photoinhibition: the synergistic effects of high light and elevated temperatures 11
[http://www.botany.uq.edu.au/research/marine/publications/pdffiles/litreviewtracey.PDF]
similar results

☐ **9.** http://coral.aoml.noaa.gov/bib/borneman.pdf
Mar 1999
...163-74. Ayre, D.J., J.E.N. Veron, and S.L. Duffy. 1991. The corals Acropora palifera and Acropora c ecologically distinct. Coral Reefs 10...
[http://coral.aoml.noaa.gov/bib/borneman.pdf]
similar results

☐ **10.** Eric Borneman
Eric Borneman, Mar 1999
...163-74. Ayre, D.J., J.E.N. Veron, and S.L. Duffy. 1991. The corals Acropora palifera and Acropora c ecologically distinct. Coral Reefs 10...
[http://coral.aoml.noaa.gov/bib/borneman2.html]
similar results

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Searched the web for "acropora grandis". Results 1 - 10 of about 61. Search took 0.05 seconds.

Imported Tonga Stony Coral Colonies **Acropora grandis**
Imported Tonga Stony Coral Colonies. See photo in Corals of Australia and the Indo-Pacific page 153 photo 1, **Acropora grandis**. Difficulty ...
www.dynamicecomorphology.com/grandisdata.htm - 3k - Cached - Similar pages

Imported Corals
www.dynamicecomorphology.com/importedfiji.htm - 7k - Cached - Similar pages
[More results from www.dynamicecomorphology.com]

Heat-Shock Proteins and Coral Bleaching
... High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis**. ...
www.co2science.org/journal/1999/v2n7c4.htm - 6k - Cached - Similar pages

RWSI Coral Catalog
Family: Acroporidae. Common Name: Staghorn, Scientific Name: **Acropora grandis**. Natural Habitat: Upper reef slopes. Description: Branched ...
www.rockandwaterscape.com/coral-catalog/rwsi_17Aa.html - 8k - Cached - Similar pages

Indo-Pacific Coral Index
... Staghorn Coral. Acropora gemmifera, Finger Coral. **Acropora grandis**, Staghorn Coral. Acropora hyacinthus, Plate Coral. Acropora nobilis, ...
www.rockandwaterscape.com/coral-catalog/ RWSI-CC-InPacIndex.htm - 15k - Cached - Similar pages
[More results from www.rockandwaterscape.com]

CoralSearch Help
... would enter: This returns two corals: **Acropora grandis** and Hydnophora grandis. 2. If you know some of the morphology: Goto Top. If ...
whelk.aims.gov.au/coralsearch/helpfiles/cshelp1.htm - 7k - Cached - Similar pages

LIVING REEF IMAGES (Species index)
... Stylophora pistillata. Acroporidae. Acropora formosa **Acropora grandis** Acropora latistella Acropora nastuta Acropora nobilis Acropora pulchra Acropora tumida ...
www.livingreefimages.com/index(d).html - 75k - Cached - Similar pages

LIVING REEF IMAGES (Stony Corals, Hermatypic Corals - Part 1)
... Tropical Indo-Pacific. Order number: FW/01/564. Photograph by Frank Walker. Name: **Acropora grandis** Order: Scleractinia. Family: Acroporidae. ...
www.livingreefimages.com/Page54.html - 10k - Cached - Similar pages
[More results from www.livingreefimages.com]

AIMS Long-term Monitoring, SOP Number 1 - REEF AESTHETICS SURVEYS
... They are typified by the staghorn corals such as **Acropora grandis** and formosa. Other branching species include Porites cylindrica and Seriatopora hystrix. ...
www.aims.gov.au/pages/research/reef-monitoring/ ltm/mon-sop1/mon-sop1-10.html - 13k - Cached - Similar pages

???????????
The summary for this Chinese (Traditional) page contains characters that cannot be correctly displayed in this language/character set.
www.mbi.nsysu.edu.tw/95-5.htm - 3k - Cached - Similar pages

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Coral Reefs - Responses to Temperature Stress - Summary

... (1997), who experimented with samples of the coral **Acropora grandis** taken from the hot water outlet of a nuclear power plant near Nanwan Bay, Taiwan. ...
www.co2science.org/subject/c/ summaries/bleachresptemp.htm - 9k - Cached - Similar pages

1995?????

... Studies on the Taxonomy of the Crab Megalopae collected from Tungkang Coast ??? (???? ??? ???) ?? (**Acropora grandis** ...
www.mbi.nsysu.edu.tw/the95.htm - 3k - Cached - Similar pages
[More results from www.mbi.nsysu.edu.tw]

Underwater laser measurements

... To date, Dr Vago has studied the short term growth dynamics of two fast growing coral species Acropora formosa and **Acropora grandis**. ...
www.aims.gov.au/pages/laser2.html - 7k - Cached - Similar pages

Aquarium Frontiers On-Line: Media Review

... Here, the aquarium shows the beautiful electric blue **Acropora grandis**, Goniopora corals and leather and soft corals that it propagates. ...
www.animalnetwork.com/fish2/aqfm/ 1998/sep/media/default.asp - 16k - Cached - Similar pages

Corals

... Corals - Page 3 of 24. All images copyright protected, © Doug Segar and Elaine Stamman Segar. Hard coral, **Acropora grandis** ? Hard coral, Acropora lovelli ? ...
www.reefimages.com/Corals/Corals2.htm - 11k - Cached - Similar pages

Acropora grandis

Genus, Species. **Acropora**, **grandis**. Shapes. Arborescent. Common colors on the reef. Green, Blue, Purple, Dark reddish-brown, Shapes (Description). Usually staghorn-like. ...
sps.reefkeepers.org/A-grandis.html - 6k - Cached

Proceedings B: Life Sciences (v22n4)

... The subcellular mechanism of how zooxanthellae leave the host cell of **Acropora grandis** under elevated temperature was investigated by using colchicine or ...
nr.stic.gov.tw/ejournal/ProceedingB/EJ02_v22n4.htm - 20k - Cached - Similar pages

ccwildlife_f

... Huang SP, Lin KL (1997) High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis**. ...
eelink.net/~asilwildlife/ccwildlife_f.html - 21k - Cached - Similar pages

Springer LINK: Coral Reefs - Table of Contents Vol. 16 Issue 2

... ping Huang, Ku-lin Lin: High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis** ...
link.springer.de/link/service/journals/ 00338/tocs/t7016002.htm - 5k - Cached - Similar pages

Species List of Scleractinian Corals - [Translate this page]
... gemmifera. Acropora glauca. Acropora globiceps. Acropora gomezi. **Acropora grandis**. Acropora granulosa. Acropora haimei. Acropora hemprichii. ...
www.biobase.org/Scleractinia/ Biobase_world_coral_list.htm - 101k - Cached - Similar pages

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[PDF]The Subcellular Mechanism of the Release of Zooxanthellae during ...
File Format: PDF/Adobe Acrobat - View as HTML
... ROC (Received June 24, 1998; Accepted September 8, 1998) ABSTRACT The subcellular mechanism of how zooxanthellae leave the host cell of **Acropora grandis** under ...
nr.stic.gov.tw/ejournal/ProceedingB/v22n4/150-158.pdf - Similar pages

[PDF]Total net trade in wild-Appendix-II Invertebrata by taxon 1995- ...
File Format: PDF/Adobe Acrobat - View as HTML
Page 1. Significant trade in animals July 2001 Total net trade in wild-Appendix-II Invertebrata by taxon 1995-1999 Taxon Term Units ...
www.cites.org/eng/cttee/animals/ 17/st2001inv_totals.PDF - Similar pages

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www.fa.gov.tw/tfb5/136/fe136mc.htm - 7k - Cached - Similar pages

?????????? ????? - ???????????? ...
The summary for this Russian page contains characters that cannot be correctly displayed in this language/character set.
www.darwin.museum.ru/expos/floor1/o_r12z20.htm - 3k - Cached - Similar pages

more sps
... **Acropora grandis**. Purchased 10/15/01. A. microphthalma. The tips actually glow a brilliant baby blue but I was unable to capture it. Grows about a inch a month. ...
home.earthlink.net/~kpockell/moresps.htm - 4k - Cached - Similar pages

[PDF]The Involvement of Calcium in Heat-induced Coral Bleaching
File Format: PDF/Adobe Acrobat - View as HTML
... MATERIALS AND METHODS Specimens of the staghorn coral, **Acropora grandis**, were collected by scuba diving from about 6 m depth on reefs in Kenting National Park ...
www.sinica.edu.tw/zool/zoolstud/37.2/89-94.PDF - Similar pages

Acropora nobilis
... Yellow, Shapes (Description). Abundance, Common habitat. Very common, Lagoons. Similar species. ... Degree of difficulty. n/a. Aquarium care and idiosyncrasies. Unknown. ...
sps.reefkeepers.org/A-nobilis.html - 6k - Cached - Similar pages
[More results from sps.reefkeepers.org]

[RTF]www.philatelicsupplies.co.uk/shells.rtf
File Format: Rich Text Format - View as HTML
... Olive,etc.SG38b-50b, 5.75. Samoa 1994 Corals (4v): **acr p ra grandis**, listeri, polystoma, allingi, 3.30. Samoa 1994 Corals above optd. ...
Similar pages

Scleractinian Coral Families, Genera and Species, Acroporidae, ... - [Translate this page]

... Acropora filiformis Acropora florida Acropora formosa Acropora forskali Acropora gemmifera Acropora glauca Acropora globiceps Acropora gomezi **Acropora grandis** ...
www.sbg.ac.at/ipk/avstudio/pierofun/coral/species.htm - 40k - Cached - Similar pages

Nat'l Academy Press, Opportunities for Environmental Applications ...
... LS, Huang SP, Lin K. 1997 High temperature induces synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acrop ra grandis**. ...
www.nap.edu/books/0309071887/html/74.html - 52k - Cached - Similar pages

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Searched the web for "acropora grandis" Results 31 - 40 of about 61. Search took 0.10 seconds.

The Saltwater Hobbyist - Coral Pictures Hard Corals - [Translate this page]
... gemmifera. Acropora glauca. Acropora globieceps. Acropora gomezi. **Acropora grandis**. Acropora granulosa. Acropora haimei. Acropora hemprichii. ...
www.saltwaterhobbyist.com/corals/ pictures/hardcorals.htm - 101k - Cached - Similar pages

NODC Coral Reef Data and Information
... 3 4 Acropora florida (Dana, 1846) 3 4 Acropora formosa (Dana, 1846) 3 4 Acropora gemmifera (Brook, 1892) 3 4 Acropora glauca (Brook, 1893) 3 4 **Acropora grandis** ...
www.nodc.noaa.gov/col/projects/coral/ hardcoral/Hardcoralmain.html - 101k - 8 Sep 2002 - Cached - Similar pages

CorauxEspeces - [Translate this page]
... anglais = Staghorn coral). Acropora gemmifera. **Acropora grandis**. Acropora humilis. Acropora hyacinthus. Acropora kirstyae. Acropora latistella. ...
perso.wanadoo.fr/mika.dit.kl/html/CorauxEspeces.htm - 11k - Cached - Similar pages

CAAB Search Result
... [a staghorn coral] - in Aust. region (not on AFZ list) 11 291051 .. **Acropora grandis** .. [a staghorn coral] 11 291052 .. Acropora granulosa .. ...
aqua.hba.marine.csiro.au:7272/CAAB/search/ caab_search.search_prepare?scitxt=Acropora%7C - 29k - Cached

[XLS]Stations
File Format: Microsoft Excel 97 - View as HTML
... Total. 4, Taxon. Cover. No. Cover. No. Cover. No. Cover. No. Cover. No. 5, Acropora formosa. 375. 2. 15. 1. 210. 1. 690. 11. 1290. 15. 6, **Acropora grandis**. 0. 0. 0. 0. 1170. ...
www.personal.rdg.ac.uk/~sns97aal/ agristats/Coral%20Data.xls - Similar pages

The Great Barrier Reef and the Coral Sea
... filterfeed. **Acropora grandis** acting as a shelter for large numbers of small fish, here the humbug damselfish (Dascyllus aruanus). ...
www.susqu.edu/australia/GBRCS5.html - 5k - Cached

Evolutionary and ecological physiology of heat-shock proteins
... 1997. High temperature induces the synthesis of heat-shock proteins and the elevation of intracellular calcium in the coral **Acropora grandis**. ...
pondside.uchicago.edu/~feder/MSS/bibliog.html - 101k - Cached - Similar pages

[MDB]BENTHOS DESCRIPTION GROUP1 GROUP2 GROUP3 1 AA ALGAL ASSEMBLAGE AL ...
File Format: Microsoft Access 1 - View as HTML
... FORM. 31, Acropora gemmifera. ACR GEMM. 32, Acropora glauca. ACR GLAU. 33, **Acropora grandis**. ACR GRAD. 34, Acropora granulosa. ACR GRAN. 35, Acropora ...
www.dec.ctu.edu.vn/cdrom/cd5/ReefBase/ARMDATA.MDB - Similar pages

Search by valid species - [Translate this page]

hercules.kgs.ku.edu/hexacoral/ anemone2/valid_species.cfm - 101k - 8 Sep 2002 - Cached - Similar pages

Search by valid species - [Translate this page]
hercules.kgs.ukans.edu/hexacoral/ anemone2/dev/valid_species.cfm - 101k - Cached - Similar pages

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... sarmentosa (TaxID 154030, info); species: Acropora togianensis (TaxID 154321, info); species: Acropora elseyi (TaxID 156433, info); species: **Acropora grandis** ...
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finally some pics of my prized Acros! : Reef Central Message ...
... like it. **ACROpora GRandis**..I believe. It came in brown with blue tips, now its a nice forest green with sky blue tips. Mines came ...
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